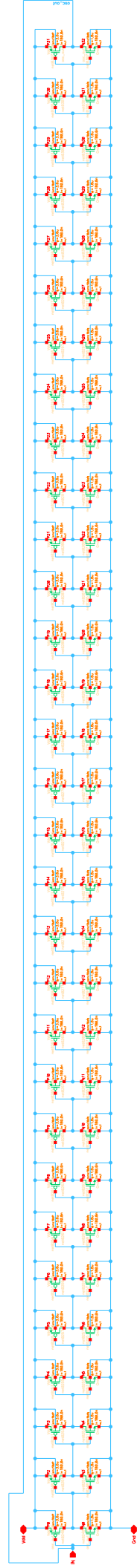


Name of the circuit/cell

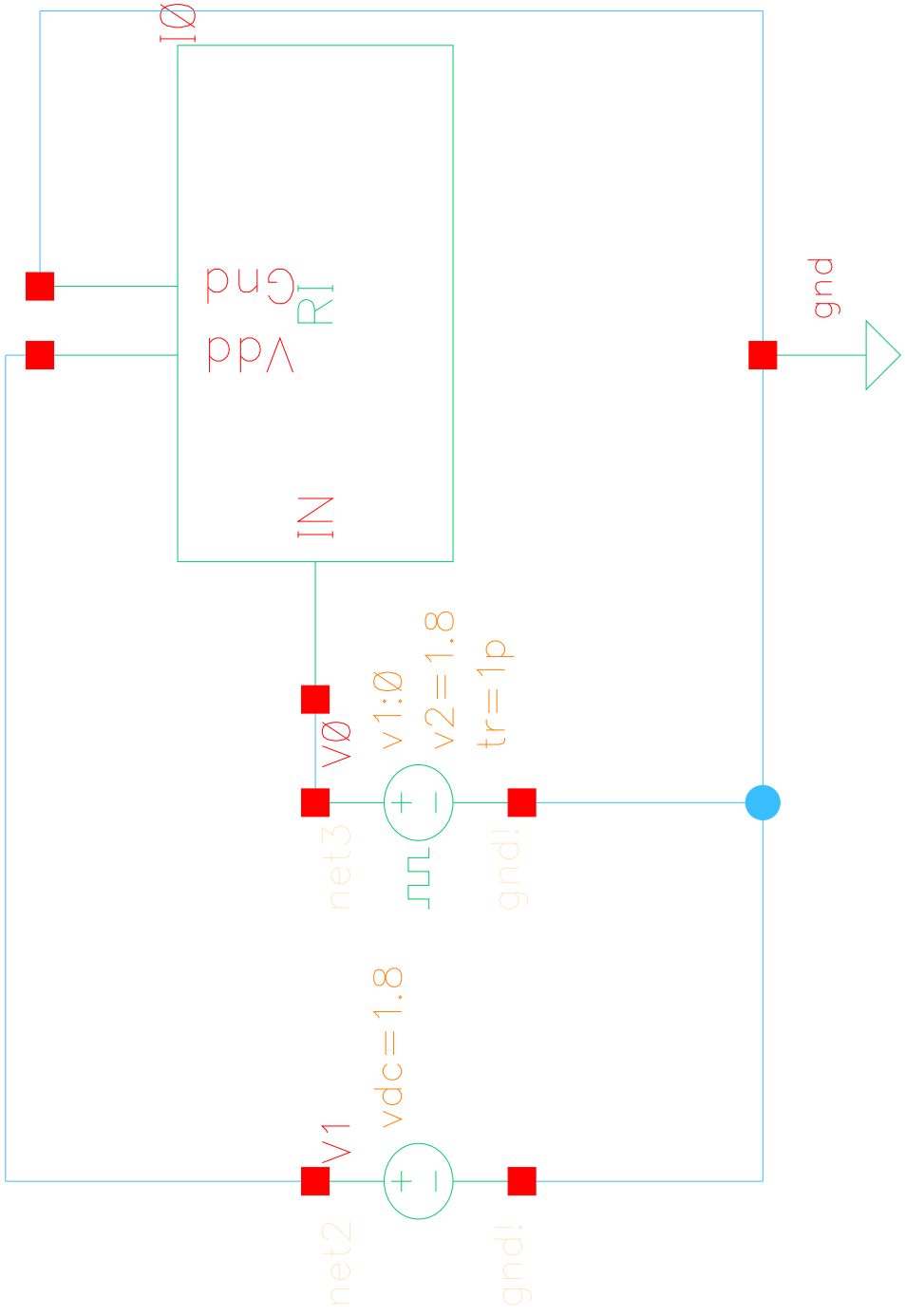
RING\_OSC by Jeremy Shaw, CpE151

Well Labeled and Clear Schematic

Jeremy Shaw CpE151



Well Labeled and Clear Test Bench Schematic

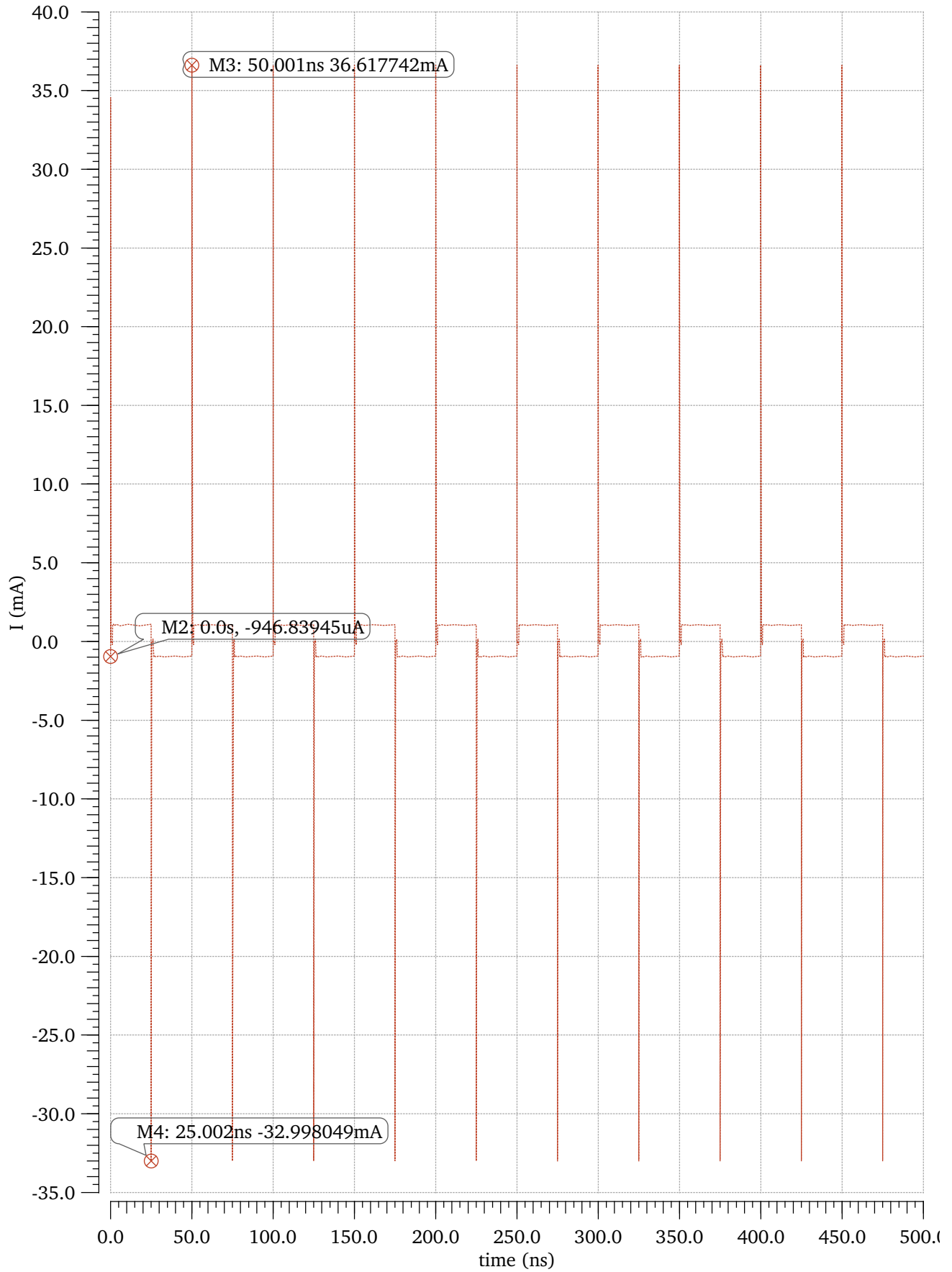


Correct Pre-Layout Simulation Results with Markers

**Transient Response****Sun Oct 13 20:07:35 2019**

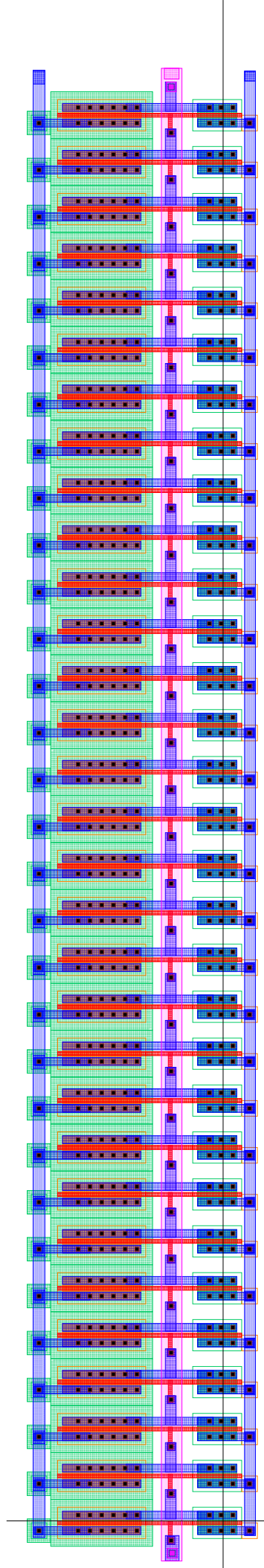
Name Vis

/I0/IN

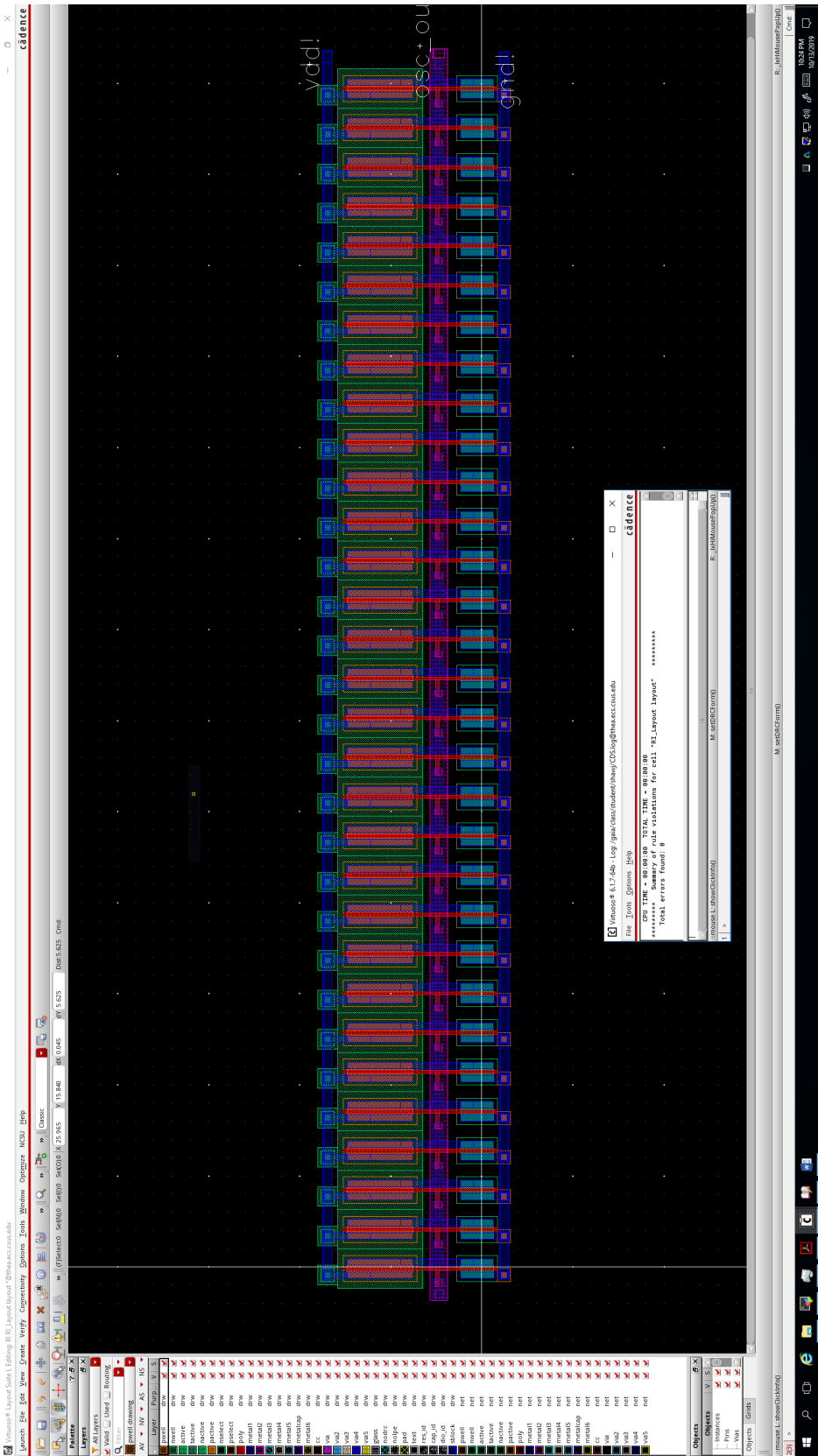


Printed to PDF Layout





Clean DRC



Clean LVS

@(#)SCDS: LVS version 6.1.7-64b 09/27/2016 19:41 (sjfhw305) \$

Command line: /software/cadence/installs/IC617/tools.lnx86/dfl/bin/64bit/LVS -dir  
/gaia/class/student/shawj/151/0start/LVS -l -s -t /gaia/class/student/shawj/151/0start/LVS/layout  
/gaia/class/student/shawj/151/0start/LVS/schematic  
Like matching is enabled.  
Net swapping is enabled.  
Using terminal names as correspondence points.

Net-list summary for /gaia/class/student/shawj/151/0start/LVS/layout/netlist

count	
33	nets
3	terminals
31	pmos
31	nmos

Net-list summary for /gaia/class/student/shawj/151/0start/LVS/schematic/netlist

count	
33	nets
3	terminals
31	pmos
31	nmos

Terminal correspondence points

N30	N0	gnd!
N32	N20	osc_out
N31	N1	vdd!

Devices in the netlist but not in the rules:  
pmos nmos

The net-lists match.

	layout	schematic
	instances	
un-matched	0	0
rewired	0	0
size errors	0	0
pruned	0	0
active	62	62
total	62	62

	nets	
un-matched	0	0
merged	0	0
pruned	0	0
active	33	33
total	33	33

	terminals	
un-matched	0	0
matched but		

different type	1	1
total	3	3

Probe files from /gaia/class/student/shawj/151/0start/LVS/schematic

devbad.out:

netbad.out:

mergenet.out:

termbad.out:

? Terminal osc\_out's type in the schematic: output, in the layout: inputOutput

prunenet.out:

prunedev.out:

audit.out:

Probe files from /gaia/class/student/shawj/151/0start/LVS/layout

devbad.out:

netbad.out:

mergenet.out:

termbad.out:

? Terminal osc\_out's type in the layout: inputOutput, in the schematic: output

prunenet.out:

prunedev.out:

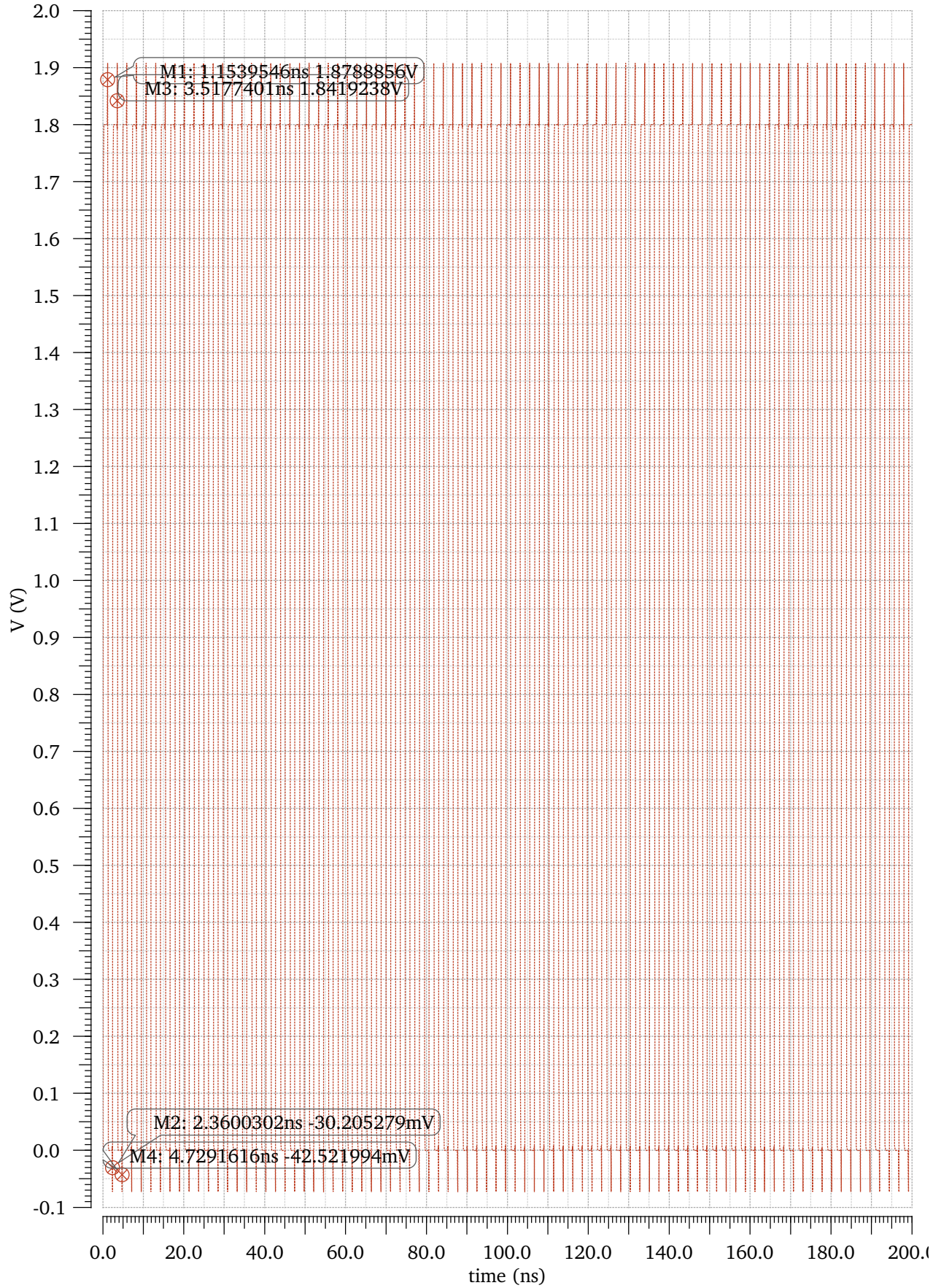
audit.out:

Correct Post-Layout Simulation results with Markers

**Transient Response****Sun Oct 13 21:58:05 2019**

Name Vis

/osc\_out





**Transient Response****Sun Oct 13 21:50:48 2019**

Name Vis

/osc\_out

